

[illegible]

[illegible]

[illegible]

|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|--|--|--|--|--|--|---|--|--|------|--|--|---------|--|----------------------------|--|--|--|-------|--|--|-----------------------|--|--|------------------------------|--|--|-------------------------------|--|--|--|--|--|--|------------|--|--|--|--|--|--|
| PTO-1449   |  |  |  |  |  | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE  |  |  |      |  |  |         |  | ATTY. DOCKET NO. T9005.A.1 |  |  |  |       |  |  | SERIAL NO. 10/727,078 |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
| LIST OF PRIOR ART CITED BY APPLICANT   |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  | APPLICANT Youngro Byun et al. |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  | FILING DATE December 2, 2003  |  |  |  |  |  |  | GROUP 1623 |  |  |  |  |  |  |
| U.S. PATENT DOCUMENTS  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
| EXAMINER INITIALS  |  |  |  |  |  | DOCUMENT NUMBER   |  |  | DATE |  |  | NAME    |  |                            |  |  |  | CLASS |  |  | SUBCLASS              |  |  | FILING DATE IF APPROPRIATE   |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
| FOREIGN PATENT DOCUMENTS   |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  | DOCUMENT NUMBER   |  |  | DATE |  |  | COUNTRY |  |                            |  |  |  | CLASS |  |  | SUBCLASS              |  |  | <u>TRANSLATION</u><br>YES NO |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
| OTHER PRIOR ART (Including Author, Title, Volume and/or Name of Publication, Relevant Pages and Date [as available])   |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
| AM   |  |  |  |  |  | A. Leone-Bay et al., N-Acylated α-Amino Acids as Novel Oral Delivery Agents for Proteins, 38 J. Med. Chem. 4263-4269 (1995).  |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
| AN   |  |  |  |  |  | A. Leone-Bay et al., Microsphere Formation in a Series of Derivatized α-Amino Acids: Properties, Molecular Modeling, and Oral Delivery of Salmon Calcitonin, 38 J. Med Chem 4257-4262 (1995). |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
| AO   |  |  |  |  |  | A. Leone-Bay et al., 4-[4-(2-Hydroxybenzoyl)amino]phenyl butyric Acid as a Novel Oral Delivery Agent for Recombinant Human Growth Hormone, 39 J. Med Chem. 2571-2578 (1996).                  |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
| EXAMINER   |  |  |  |  |  |   |  |  |      |  |  |         |  | DATE CONSIDERED            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |
| • EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |  |  |  |  |  |   |  |  |      |  |  |         |  |                            |  |  |  |       |  |  |                       |  |  |                              |  |  |                               |  |  |  |  |  |  |            |  |  |  |  |  |  |

|   |  |                               |                       |
|---|--|-------------------------------|-----------------------|
| PTO-1449                                    | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. T9005.A.1    | SERIAL NO. 10/727,078 |
| <b>LIST OF PRIOR ART CITED BY APPLICANT</b> |  | APPLICANT Youngro Byun et al. |                       |
|   |  | FILING DATE December 2, 2003  | GROUP 1623            |

  

| U.S. PATENT DOCUMENTS |                 |      |      |       |          |                            |  |
|-----------------------|-----------------|------|------|-------|----------|----------------------------|--|
| EXAMINER INITIALS     | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |  |
|                       |                 |      |      |       |          |                            |  |
|                       |                 |      |      |       |          |                            |  |
|                       |                 |      |      |       |          |                            |  |
|                       |                 |      |      |       |          |                            |  |
|                       |                 |      |      |       |          |                            |  |
|                       |                 |      |      |       |          |                            |  |
|                       |                 |      |      |       |          |                            |  |
|                       |                 |      |      |       |          |                            |  |
|                       |                 |      |      |       |          |                            |  |
|                       |                 |      |      |       |          |                            |  |
|                       |                 |      |      |       |          |                            |  |
|                       |                 |      |      |       |          |                            |  |
|                       |                 |      |      |       |          |                            |  |

  

| FOREIGN PATENT DOCUMENTS |      |         |       |          |             |    |  |
|--------------------------|------|---------|-------|----------|-------------|----|--|
| DOCUMENT NUMBER          | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |  |
|                          |      |         |       |          | YES         | NO |  |
|                          |      |         |       |          |             |    |  |
|                          |      |         |       |          |             |    |  |
|                          |      |         |       |          |             |    |  |
|                          |      |         |       |          |             |    |  |
|                          |      |         |       |          |             |    |  |

  

| OTHER PRIOR ART (Including Author, Title, Volume and/or Name of Publication, Relevant Pages and Date (as available)) |    |  |   |
|--|----|--|---|
| Mc   | AP |  | A. Leone-Bay et al., The evolution of an oral heparin dosing solution, 22(8) Drugs of the Future 885-891 (1997).  |
| Mo   | AQ |  | A. Leone-Bay et al., Acylated non- $\alpha$ -amino acids as novel agents for the oral delivery of heparin sodium, USP, 50 Journal of Controlled Release 41-49 (1998). |
| Kz   | AR |  | A. Leone-Bay et al., Synthesis and Evaluation of Compounds that Facilitate the Gastrointestinal Absorption of Heparin, 41 J. Med. Chem. 1163-1171 (1998).             |

  

|  |   |
|--|---|
| EXAMINER <span style="float: right;">/ J.S.</span> | DATE CONSIDERED <span style="float: right;">March 2005</span> |
|--|---|

  

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[illegible]

[illegible]